

## EAST Search History

| Ref # | Hits | Search Query  | DBs                                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------------------|------------------|---------|------------------|
| S3    | 244  | (spread adj1 spectrum) and (processor with matrix)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2004/08/18 13:35 |
| S4    | 99   | ((spread adj1 spectrum) and (processor with matrix)) and (commands or instructions)   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2004/08/17 17:42 |
| S5    | 36   | ((spread adj1 spectrum) and (processor with matrix)) and (commands or instructions)) and routing  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2004/08/17 17:42 |
| S6    | 317  | (Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (process\$4 with matrix)                                  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2004/08/17 17:45 |
| S7    | 33   | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (process\$4 with matrix)) and (correlat\$4 with matrix)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2005/08/16 12:19 |
| S8    | 11   | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (process\$4 with matrix)) and (protocol adj1 translator) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2004/08/17 17:47 |
| S9    | 58   | (Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (correlat\$4 with matrix)                                 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2005/08/16 12:19 |
| S10   | 58   | (Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (correlat\$4 with matrix)                                 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2005/08/16 12:20 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S11 | 34 | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (process\$4 with matrix)) and (correlat\$4 with matrix) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 12:20 |
| S12 | 24 | S10 not S11  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 14:08 |
| S13 | 2  | (correlat\$4 with code with matrix) and (correlat\$4 with cross-correlat\$4 with matrix with user) and ((memory or memories) with matrix) and ((adress\$4 or rout\$4) with (memory or memories))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 12:23 |
| S14 | 3  | (correlat\$4 with code with matrix) and (correlat\$4 with cross-correlat\$4 with matrix) and ((memory or memories) with matrix) and ((adress\$4 or rout\$4) with (memory or memories))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 12:41 |
| S15 | 3  | (correlat\$4 with code with matrix) and (cross-correlat\$4 with matrix) and ((memory or memories) with matrix) and ((adress\$4 or rout\$4) with (memory or memories))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 12:24 |
| S16 | 3  | ((correlat\$4 with matrix) same code) and (cross-correlat\$4 with matrix) and ((memory or memories) with matrix) and ((adress\$4 or rout\$4) with (memory or memories))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 12:25 |
| S17 | 59 | (correlat\$4 with matrix) and ((memory or memories) with matrix) and ((adress\$4 or rout\$4) with (memory or memories))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 12:41 |
| S18 | 3  | S17 and ((first adj1 matrix) same (second adj1 matrix))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 12:26 |
| S19 | 37 | (correlat\$4 with code with matrix) and (correlat\$4 with cross-correlat\$4 with matrix) and ((memory or memories) with matrix)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 13:59 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S20 | 2    | ("6724809").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 12:43 |
| S21 | 1070 | Reznik.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 13:04 |
| S22 | 5    | Reznik.in. and (parallel adj1 interference)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:22 |
| S23 | 6    | Reznik.in. and (sub-matrix)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 13:16 |
| S24 | 1    | "5822380".PN.  | USPAT;<br>USOCR                             | OR | OFF | 2005/08/16 13:20 |
| S25 | 35   | 375/130-153.ccls. and (correlat\$4 with code with matrix) and ((memory or memories) with matrix)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 17:28 |
| S26 | 28   | 375/130-153.ccls. and (cross-correlat\$4 with matrix) and ((memory or memories) with matrix)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 13:41 |
| S27 | 53   | ((multi-user or multiuser) near3 detect\$4) and (matrix with correlat\$4) and (matrix same (memory or memories))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:05 |
| S28 | 22   | ((("5581632") or ("5790534") or ("5831984") or ("5864549") or ("5867478") or ("5870378") or ("5872776") or ("5881056") or ("5933423") or ("5936950") or ("5943330"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/09/22 14:38 |
| S29 | 32   | ((("6005852") or ("6011812") or ("6047020") or ("6064689") or ("6091788") or ("6101176") or ("6128486") or ("6154507") or ("6161209") or ("6188718") or ("6192042") or ("6212406") or ("6215780") or ("6219341") or ("6222833") or ("6240099"))).PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 13:57 |
| S30 | 1    | S28 and S29  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 13:58 |

## EAST Search History

|     |         |   |   |    |     |                  |
|-----|---------|---|---|----|-----|------------------|
| S31 | 53      | S28 or S29  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 13:58 |
| S32 | 16      | S31 and (matrix same correlat\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 13:59 |
| S33 | 2       | S32 and (matrix same (stor\$4 or<br>memory or memories))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 13:59 |
| S34 | 44      | (correlat\$4 with code with matrix)<br>and (correlat\$4 with<br>cross-correlat\$4 with matrix) and<br>((stor\$4) with matrix) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:02 |
| S35 | 15      | ((multiple adj1 user ) near3<br>detect\$4) and (matrix with<br>correlat\$4) and (matrix same<br>(memory or memories))         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:06 |
| S36 | 1046    | 375/150.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 14:08 |
| S37 | 2       | ("6449266").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 14:24 |
| S38 | 3       | "6724809"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 14:25 |
| S39 | 2168577 | WO 200129983A1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 14:25 |
| S40 | 1       | "WO 200129983 A1"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/16 14:25 |
| S41 | 2       | ("6018317").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/09/22 14:41 |
| S42 | 1       | S41 and correlat\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/09/22 14:42 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S43 | 1    | S42 and matrix  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/09/22 14:42 |
| S44 | 1    | S43 and (memory or memories)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/22 14:49 |
| S45 | 0    | (matrix with correlat\$4) same instructions                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/22 14:50 |
| S46 | 152  | (matrix with correlat\$4) same instructions                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/22 14:51 |
| S47 | 127  | ((matrix with correlat\$4) same instructions) and (memory or memories)      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/22 14:51 |
| S48 | 137  | (matrix same (cross adj1 correlat\$4)) same (processor)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/28 13:33 |
| S49 | 32   | S48 and spread adj1 spectrum  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/28 13:32 |
| S50 | 10   | (matrix same (cross adj1 correlat\$4)) same (processor) same instructions   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/28 13:36 |
| S51 | 1562 | (matrix same correlat\$4) and (matrix same processor)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/28 13:37 |
| S52 | 320  | S51 and (processor same instructions)                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/28 13:38 |
| S53 | 33   | 375/130-153.ccls. and S52   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/28 13:55 |
| S54 | 98   | 375/130-153.ccls. and (matrix same correlat\$4) and (matrix same processor) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 11:23 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S55 | 0    | S54 and (first adj1 processo) and (second adj1 processor)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 13:56 |
| S56 | 3    | S54 and (first adj1 processor) and (second adj1 processor)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 13:56 |
| S57 | 54   | 375/130-153.ccls. and (matrix same correlat\$4) and (matrix same processor) and (instruct\$4 or command\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:18 |
| S58 | 2904 | (matrix same processor same (instruct\$4 or command\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:19 |
| S59 | 192  | S58 and ((multiple or plurality) adj2 users)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:19 |
| S60 | 177  | S59 and (memory or memories)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:20 |
| S61 | 29   | S60 and (matrix same correlat\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:21 |
| S62 | 29   | S59 and (matrix same correlat\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:21 |
| S63 | 54   | S60 and (matrix same uses)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:22 |
| S64 | 132  | S60 and (matrix same users)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:27 |
| S66 | 263  | (processor same (instruct\$4 or command\$4)) and ((matrix with processor) same (instruct\$4 or command\$4)) and (matrix same (correlat\$4 or amplitude or symbols)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/28 14:29 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S67 | 148 | (processor same (instruct\$4 or command\$4)) and ((matrix with processor) same (instruct\$4 or command\$4)) and (matrix with (correlat\$4 or amplitude or symbols))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/28 14:30 |
| S68 | 34  | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (process\$4 with matrix)) and (correlat\$4 with matrix)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/01/12 15:42 |
| S69 | 125 | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (operating adj1 systems) and correlat\$4)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/12 15:43 |
| S70 | 39  | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (operating adj1 systems) and correlat\$4 and matrix)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/12 15:46 |
| S71 | 15  | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (operating adj1 systems) and correlat\$4 and matrix and instructions) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/12 15:59 |
| S72 | 48  | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (matrix same instructions))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/12 15:54 |
| S73 | 662 | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (operating adj1 systems))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/12 16:02 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S74 | 89 | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (operating adj1 systems) and matrix) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/12 16:02 |
| S75 | 89 | ((Oates.in. or Imperiali.in. or Fuchs.in. or Jacques.in. or Greene.in. or Jenkins.in. or Lauginiger.in. or Majchrzak.in. or Cantrell.in. or Cifric.in. or Dunn.in. or Vinskus.in.) and (operating adj1 system) and matrix)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/12 16:02 |
| S76 | 0  | ("4471357" "4940977" "5293330" "6098088" "6292592" "6778591" "6801589" "6898612").PN.).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:16 |
| S77 | 16 | ("4471357" "4940977" "5293330" "6098088" "6292592" "6778591" "6801589" "6898612").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:17 |
| S78 | 6  | S77 and matrix  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:18 |
| S79 | 4  | S77 and matrix and covariance   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:30 |
| S80 | 2  | ("6952460").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:30 |
| S81 | 2  | S80 and memory  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:31 |
| S82 | 2  | S80 and matrix  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:36 |
| S83 | 1  | S80 and (matrix same memory)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:42 |
| S84 | 1  | S80 and (matrix same stor\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:52 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S85 | 1   | S80 and ((memory or stor\$4) same covariance)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/28 12:53 |
| S86 | 73  | (submatrix or sub-matrix) same (covariance adj1 matrix)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/28 12:56 |
| S87 | 113 | (detect\$4 near3 (multiuser or multi-user)) and ("R" adj3 matrix)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/12 17:48 |
| S88 | 33  | (detect\$4 near3 (multiuser or multi-user)) and ("R" adj3 matrix) and ("DSP" or (digital adj1 signal adj1 processor))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 16:01 |
| S89 | 33  | (detect\$4 near3 (multiuser or multi-user)) and ("R" adj3 matrix) and ("DSP" or (digital adj1 signal adj1 processor)) and matrix                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 16:08 |
| S90 | 19  | (detect\$4 near3 (multiuser or multi-user)) and (matrix same correlat\$4) and ((stor\$4 or memory) near3 matrix) and instructions                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 16:13 |
| S91 | 19  | (detect\$4 near3 (multiuser or multi-user)) and (matrix same correlat\$4) and ((stor\$4 or memory) near3 matrix) and commands  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 16:14 |
| S92 | 30  | (detect\$4 near3 (multiuser or multi-user)) and (matrix same correlat\$4) and ((stor\$4 or memory) near3 matrix) and ("DSP" or (digital adj1 signal adj1 processor)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 16:19 |
| S93 | 49  | (detect\$4 near3 (multiuser or multi-user)) and (matrix same correlat\$4) and ((stor\$4 or memory) near3 matrix)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 16:21 |
| S94 | 49  | (detect\$4 near3 (multiuser or multi-user)) and (matrix same correlat\$4) and ((stor\$4 or memory) near3 matrix) and matrix  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 16:28 |
| S96 | 55  | (detect\$4 near3 (multiuser or multi-user)) and (matrix same (correlat\$4 or cross-correlata\$4 or crosscorrelat\$4)) and (stor\$4 with matrix) and matrix           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:06 |

## EAST Search History

|      |     |  |   |    |     |                  |
|------|-----|--|---|----|-----|------------------|
| S97  | 2   | ("6011812").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/12 16:44 |
| S98  | 158 | (multiuser or multi-user or (multiple adj1 users) or (multiple adj1 access)) and (matrix same (correlat\$4 or cross-correlata\$4 or crosscorrelat\$4)) and (stor\$4 with matrix) and matrix and (instructions)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:17 |
| S99  | 62  | (multiuser or multi-user or (multiple adj1 users) or (multiple adj1 access)) and (matrix same (correlat\$4 or cross-correlata\$4 or crosscorrelat\$4)) and (stor\$4 with matrix) and matrix and ((instructions) same matrix) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:16 |
| S100 | 516 | (parallel with user with detect\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:17 |
| S101 | 24  | S100 and (matrix same (correlat\$4 or cross-correlata\$4 or crosscorrelat\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:23 |
| S102 | 18  | S100 and (matrix same (correlat\$4 or cross-correlata\$4 or crosscorrelat\$4)) and (processor or instructions)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:34 |
| S103 | 18  | (processor same (instructions or commands) same matrix) and (matrix with user with (correlat\$4 or cross-correlat\$4 or crosscorrelat\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:39 |
| S104 | 36  | (processor same (instructions or commands) same matrix) and (matrix same user same (correlat\$4 or cross-correlat\$4 or crosscorrelat\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:39 |
| S105 | 18  | S104 not S103  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:40 |
| S106 | 93  | ((multiple or plurality) adj3 processor) same instructions same matrix   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:41 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S10<br>7 | 59  | (detect\$4 near3 (multiuser or multi-user)) and (processor same instructions) and matrix            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/13 12:30 |
| S10<br>8 | 67  | (detect\$4 near3 (multiuser or multi-user)) and (processor same instructions) and matrix            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:43 |
| S10<br>9 | 50  | S108 not S104   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:43 |
| S11<br>0 | 15  | (detect\$4 near3 (multiuser or multi-user)) and (("R" near2 matrix) same (submatrix or submatrix))\ | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:48 |
| S11<br>1 | 15  | (detect\$4 near3 (multiuser or multi-user)) and (("R" near2 matrix) same (submatrix or submatrix))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:50 |
| S11<br>2 | 85  | (detect\$4 near3 (multiuser or multi-user)) and (parallel same matrix)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:51 |
| S11<br>3 | 41  | (detect\$4 near3 (multiuser or multi-user)) and (parallel with matrix)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/12 17:55 |
| S11<br>4 | 2   | ("6685338").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/12 17:55 |
| S11<br>5 | 2   | ("6885338").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/13 13:20 |
| S11<br>6 | 3   | (detect\$4 near3 (multiuser or multi-user)) and (partial adj1 matrix) and processor                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/13 12:30 |
| S11<br>7 | 3   | (detect\$4 near3 (multiuser or multi-user)) and (partial adj1 matrix) and processor                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 12:31 |
| S11<br>8 | 267 | (multiuser or multi-user or ((multiple or plurality) adj2 user)) and (parallel with matrix)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 12:32 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S11<br>9 | 228 | (multiuser or multi-user or ((multiple or plurality) adj2 user)) and (parallel with matrix) and (processor or instructions or commands)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:51 |
| S12<br>0 | 42  | (detect\$4 with (multiuser or multi-user or ((multiple or plurality) adj2 user))) and (parallel with matrix) and (processor or instructions or commands)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:21 |
| S12<br>1 | 42  | (detect\$4 with (multiuser or multi-user or ((multiple or plurality) adj2 user))) and (parallel with matrix) and (processor or instructions or commands) and matrix | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 12:45 |
| S12<br>2 | 42  | ((detect\$4 with (multiuser or multi-user or ((multiple or plurality) adj2 user))) same parallel) and (matrix same (control\$4 or processor))                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:41 |
| S12<br>3 | 19  | S122 not S121   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:40 |
| S12<br>4 | 89  | ((detect\$4 with (multiuser or multi-user or ((multiple or plurality) adj2 user))) same parallel) and (matrix)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:41 |
| S12<br>5 | 70  | S124 not S123   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:41 |
| S12<br>6 | 55  | S125 and (processor or instructions or commands)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:50 |
| S12<br>7 | 199 | (matrix same instructions same (correlat\$4 or cross-correlat\$4 or crosscorrelat\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 13:50 |
| S12<br>8 | 31  | S127 and (multiuser or multi-user or ((multiple or plurality) adj2 user))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/13 14:04 |
| S12<br>9 | 2   | ("20020126644").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/13 14:55 |

## EAST Search History

|          |    |   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S13<br>0 | 1  | S129 and (register or memory or stor\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/13 15:18 |
| S13<br>1 | 36 | 375/130-153.ccls. and (correlat\$4 with code with matrix) and ((memory or memories) with matrix)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 10:10 |
| S13<br>2 | 2  | ("6618434").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/17 09:14 |
| S13<br>3 | 1  | S132 and matrix   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/17 09:15 |
| S13<br>4 | 61 | ((first adj1 processor) and (second adj1 processor)) same (first adj1 operat\$4 adj1 (system or protocol)) same (second adj1 operat\$4 adj1 (system or protocol)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 10:21 |
| S13<br>5 | 0  | (Barteni.in.) and processor   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 10:21 |
| S13<br>6 | 4  | (Bateni.in.) and processor  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 10:21 |
| S13<br>7 | 1  | "5490165".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 10:52 |
| S13<br>8 | 1  | "5646544".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 10:52 |
| S13<br>9 | 1  | "5684793".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 10:52 |
| S14<br>0 | 1  | "5684793".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 10:53 |
| S14<br>1 | 1  | "5892961".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 10:53 |
| S14<br>2 | 1  | "5828858".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 10:53 |
| S14<br>3 | 1  | "5907580".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:21 |
| S14<br>4 | 1  | "5966534".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:21 |
| S14<br>5 | 1  | "5970254".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:21 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S14<br>6 | 1   | "6094065".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:21 |
| S14<br>7 | 1   | "6120551".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:21 |
| S14<br>8 | 1   | "6150838".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:22 |
| S14<br>9 | 1   | "6230307".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:22 |
| S15<br>0 | 1   | "6408039".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/17 11:22 |
| S15<br>1 | 96  | 375/130-153.ccls. and (control\$4<br>with processor) and (processor<br>same matrix)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 11:34 |
| S15<br>2 | 110 | 375/130-153.ccls. and ((multiple or<br>plurality) adj2 processors)                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 11:34 |
| S15<br>3 | 59  | S152 and matrix   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 12:00 |
| S15<br>4 | 51  | S152 not S153   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 13:01 |
| S15<br>5 | 0   | S154 and matrix   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/17 13:01 |
| S15<br>6 | 42  | (correlat\$4) same (different near3<br>(operat\$4 adj1 (system or<br>protocol)))                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/10/15 12:11 |
| S15<br>7 | 16  | 375/130-153.ccls. and (correlat\$4)<br>and (different near3 (operat\$4 adj1<br>(system or protocol))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/10/15 12:12 |
| S15<br>8 | 98  | (correlat\$4 near3 signals) and<br>(different near2 (operat\$4 adj1<br>(system or protocol)))         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/10/15 12:13 |
| S15<br>9 | 98  | S158 not S156   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/10/15 12:13 |

## EAST Search History

|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S16<br>0 | 85  | S158 not S157   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 12:15 |
| S16<br>1 | 85  | S160 and (operat\$4 adj1 (system or protocol))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 13:34 |
| S16<br>2 | 100 | 375/130-153.ccls. and (user same (spread adj1 spectrum)) and (instructions with (transmit\$4 or communicat\$4)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:01 |
| S16<br>3 | 49  | 375/130-153.ccls. and (user same (spread adj1 spectrum)) and ((instructions or commands) near3 (bus or link))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:00 |
| S16<br>4 | 179 | (user with (spread adj1 spectrum)) and ((instructions or commands) near3 (bus or link))                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:02 |
| S16<br>5 | 100 | 375/130-153.ccls. and (user same (spread adj1 spectrum)) and (instructions with (transmit\$4 or communicat\$4)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:01 |
| S16<br>6 | 170 | S164 not S165   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:01 |
| S16<br>7 | 219 | (user with (spread adj1 spectrum)) and ((instructions or commands) near3 (configur\$4 (bus or link)))           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:14 |
| S16<br>8 | 51  | (user near3 (spread adj1 spectrum)) and ((instructions or commands) near3 (configur\$4 (bus or link)))          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:15 |
| S16<br>9 | 0   | (user near3 (spread adj1 spectrum)) and ((instructions or commands) near3 (configur\$4 near3 (bus or link)))    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:15 |
| S17<br>0 | 3   | (user same (spread adj1 spectrum)) and ((instructions or commands) near3 (configur\$4 near3 (bus or link)))     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:16 |
| S17<br>1 | 125 | (user same (spread adj1 spectrum)) and ((configur\$4 near3 (bus or link)))                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:16 |

## EAST Search History

|          |    |  |   |    |    |                  |
|----------|----|--|---|----|----|------------------|
| S17<br>2 | 48 | (user with (spread adj1 spectrum))<br>and ((configur\$4 near3 (bus or<br>link)))                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:18 |
| S17<br>3 | 5  | (user with (spread adj1 spectrum))<br>and ((configur\$4 near2 (bus)))                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:19 |
| S17<br>4 | 0  | (user same (spread adj1 spectrum))<br>and ((instructions or<br>commands)with (configur\$4 near2<br>(bus))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:19 |
| S17<br>5 | 0  | (user same (spread adj1 spectrum))<br>and ((instructions or commands)<br>with (configur\$4 near2 (bus)))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:19 |
| S17<br>6 | 1  | (user same (spread adj1 spectrum))<br>and ((instructions or commands)<br>with (configur\$4 near2 (link)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:20 |
| S17<br>7 | 11 | (user same (spread adj1 spectrum))<br>and ((configur\$4 near2 (bus)))                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:28 |
| S17<br>8 | 1  | (user same (spread adj1 spectrum))<br>and ((configur\$4 near2 link) near4<br>processors)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:29 |
| S17<br>9 | 0  | (user same (spread adj1 spectrum))<br>and ((configur\$4 near2 bus) near4<br>processors)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:29 |
| S18<br>0 | 0  | (user same (spread adj1 spectrum))<br>and ((configur\$4 near2 transl\$4)<br>near4 processors)              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/10/15 16:29 |